

A. CLASSIFICATION OF SUBJECT MATTER
 INV. G06F17/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2001/051955 A1 (WONG JOHN P [US]) 13 December 2001 (2001-12-13) column 1 - column 22 -----	1,2
A	US 2006/167838 A1 (LACAPRA FRANCESCO [US]) 27 July 2006 (2006-07-27) column 1 - column 20 -----	1,2
A	US 2007/024919 A1 (WONG CHI M [US] ET AL) 1 February 2007 (2007-02-01) column 1 - column 10 -----	1,2

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

20 March 2009

Date of mailing of the international search report

09/06/2009

Name and mailing address of the ISA/

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2008/064677

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-2

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-2

A file system which appears to be characterized in a central network file manager and remote file manager.
The problem solved by these claims appears to be how to implement a switched file system.

2. claims: 3 - 15, 19

A switched file system which appears to be characterized in various rules for managing data and metadata.
The problem solved by these claims appears to be how to implement data and metadata managing in a switched file system.

3. claims: 16 - 17

A switched file system which appears to be characterized in oplock requests.
The problem solved by these claims appears to be how to implement oplock management in a switched file system.

4. claim: 18

A switched file system which appears to be characterized in that a cache memory is provided.
The problem solved by this claim appears to be how to implement cache management in a switched file system.

5. claims: 20 - 21

A switched file system which appears to be characterized in that the data access and modification is disallowed during communication failures
The problem solved by these claims appears to be how to manage communication failures in a switched file system.

6. claims: 22 -25

A network file manager and appliance which appears to be characterized in that (compressed) SMB messages are being used
The problem solved by these claims appears to be how to manage communication failures in a network file system

7. claim: 26

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

An appliance which appears to be characterized in that a broadcast service for delivering messages is established.
The problem solved by this claim appears to be how to manage delivery of messages in a network.

8. claims: 27 - 29

An appliance which appears to be characterized in that a file transfer service is established.
The problem solved by these claims appears to be how to manage file transfer between a plurality of sites.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2001051955	A1	13-12-2001	NONE
US 2006167838	A1	27-07-2006	NONE
US 2007024919	A1	01-02-2007	NONE